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VDO

ERSATZTEILE
für Philips Car Systems
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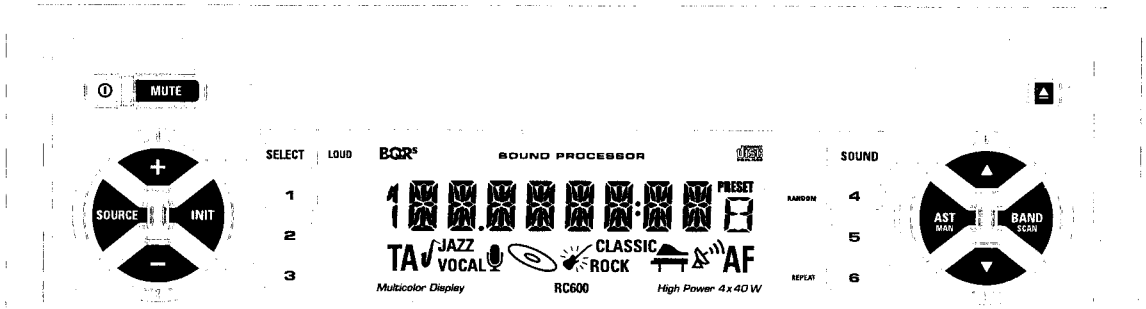
CD Car Radio

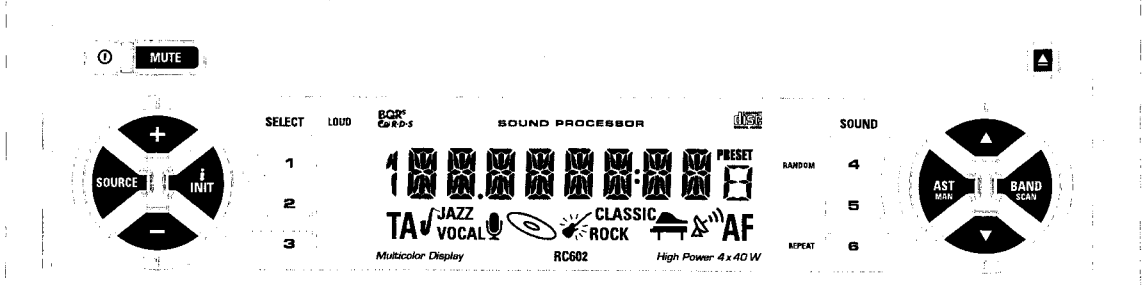
79RC600/00
79RC600/10
79RC602/00

Service Manual

For repair information of the CD player see Service Manual of CD mechanism

12 V





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PCS 101 951

Technical Specifications

General

Power Supply	:	10.5 - 16V
Quiescent Current (at 12.6V)	:	<3.0mA
Fuse	:	10A

Radio

TUNING RANGE IN DIFFERENT "INIT" MODE

INIT MODE	BAND	FREQUENCY	GRIDS MANUAL/AUTO
EUROPE	FM	87.5 - 108MHz	50kHz/100kHz
	MW	531 - 1629kHz	1kHz/9kHz step
AMERICA	FM	87.5 - 108MHz	100kHz/100kHz
LATAM	AM	530 - 1710kHz	1kHz/10kHz step
ASIA	FM	87.5 - 108MHz	50kHz/50kHz
	AM	531 - 1629kHz	1kHz/9kHz step

Aerial input impedence	:	75 ohm
IF-FM (1/2)	:	72.2MHz/10.7MHz
IF-AM(1/2)	:	10.7MHz/450kHz
- 3dB	:	7±3 V
SDS (10 dB channel separation)	:	140uV ± 3dB
Stereo channel separation	:	> 21dB
FM sensitivity for 26dB S/N	:	< 4.5 V
MW sensitivity for 26dB S/N	:	< 30 V

CD player

CD mechanism	:	CDC01
Frequency response	:	20Hz - 20kHz
Crosstalk	:	45dB

Amplifier

Output Power (D=10%)	:	4x16W ± 1dB/4
Fader	:	50dB
Balance	:	50dB

ESD

WARNING

All IC's and many semiconductors are susceptible to electronic discharges (ESD). Careless handling during repair can reduce life drastically.

When repairing, make sure that you care connected to the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

ESD Equipment:

Anti-static table mat	large 1200x650x1.25mm	4822 466 10953
	small 600x650x1.25mm	4822 466 10958
Anti-static wrist band		4822 395 10223
Connection box (1MOhm)		4822 320 11307
Extendible cable (to connect wrist band to conn. box)		4822 320 11305
Connecting cable (to connect table mat to conn. box)		4822 320 11306
Earth cable (to connect any product to mat or box)		4822 320 11308
Complete kit ESD3 (combining all above products)		4822 310 10671
Wristband tester		4822 344 13999

INSTALLATION

If your car is equiped with ISO connectors, simply insert them in connectors of car radio. If not, you can use an adaptor cable (Refer to the table on the separate installation card)

PREPARATION

Voltage and polarity: The set must be connected to a 12V car battery with negative terminal to earth (car chassis).

Warning: To prevent short-circuiting,disconnect the negative car battery terminal until the set has been mounted and connected. See separate installation card.

MOUNTING (Please refer to the Installation Card)

METAL SLEEVE

Install the metal sleeve (dimension 182 x 53 mm) in the dashboard (Fig.5).
Fix metal sleeve into place by pressing the metal tags outwards using a screwdriver(Fig.6).
For optimal performance of the CD player, the metal sleeve should be mounted horizontallly (between -10^{0} and $+30^{0}$). Consult your dealer for other mounting angle.

MOUNTING RADIO

This radio can be properly installed either from conventional Front Mounting or Rear Mounting

Front mounting(Fig.8)

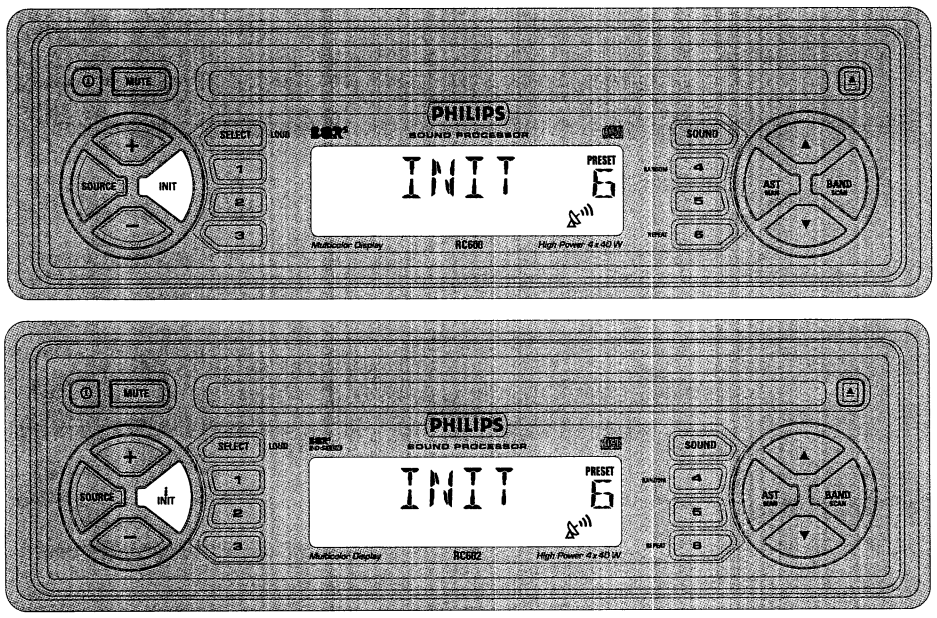
Slide the radio into the metal sleeve until the springs at either side of the radio snap into the openings of the sleeve.
Finally reconnect the negative car battery terminal.

REMOVE RADIO (using the two U-brackets supplied)

Insert both U-brackets into the holes on the front of the set until they lock.
- Pull out the radio .

REPLACING FUSE

Use a 10A blade-type fuse .



INITIAL SETTINGS

It is possible to modify many of the set's initial settings according to your preferences.
Press the INIT key until you hear a beep to enter the initialisation mode. The display shows 'INIT'.
Briefly press ▲or ▼key to select the option you want to modify.
At your selected option, press 'AST' key to change the setting.
The choice shown on the display will be memorized by the set when you select another option or leave the initialisation mode.
Press INIT key until you hear a beep to leave the initialisation mode.
Note: The set automatically leaves the initialisation mode about 1 minute after your last operation.

SECURITY CODE (for selected model only)

CHECKING WHERE THE SECURITY CODE IS ACTIVE

If the security code is active, the display briefly shows 'CODE' each time the set is switched on

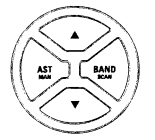
ACTIVATING THE SECURITY CODE

While keep the ▲key pressed, switch on the set. Keep the ▲key pressed until the display shows 'CODE' and you hear a beep. The security code is now active.

If the power supply has been interrupted...
If the Security code has been activated and the power supply has been interrupted, the set will mute and the display shows 'CODE'.
Enter the code as described in 'Entering the code'.

Entering the code (stated on the 'Security card', for example 4359):

Action	Display
-Switch on the set	CODE
-Press the preset 1 key	0 - - -
Enter the first figure of the code with the▲or▼keys	4 - - -
- Press the preset 1key again	4 0 - -
Enter the second figure of the code with the ▲or▼keys	4 3 - -
- Press the preset 1 key again	4 3 0 -
Enter the third figure of the code with the ▲or▼ keys	4 3 5 -
- Press the preset 1 key again	4 3 5 0
Enter the fourth figure of the code with the▲or▼ keys	4 3 5 9
- Press the preset 1 key once more.	



-If the correct code was entered, the set gives a beep and then will function normally.
-If an incorrect code was entered, the set give a error beep. The display shows 'WAIT'. This indicates that a waiting period has started.

1. Do not switch off the set when the display shows 'wait'! (The waiting period will start all over agian when the set is switched on.)
2. You must wait until the display shows'CODE'. This indicates that the waiting period has finished.
3. Enter the correct code as described in 'Entering the code'.

The waiting period doubled each time an incorrect code is entered(1 minute, 2 minutes, 4 minutes, etc...)

Deactivating the Security Code

1. While keeping the ▲key pressed, switch on the set. Keep the ▲ key pressed until you hear a beep.
2. Enter the code as described in 'Entering the code'. You will hear two beeps indicating that the Security Code has been deactivated.

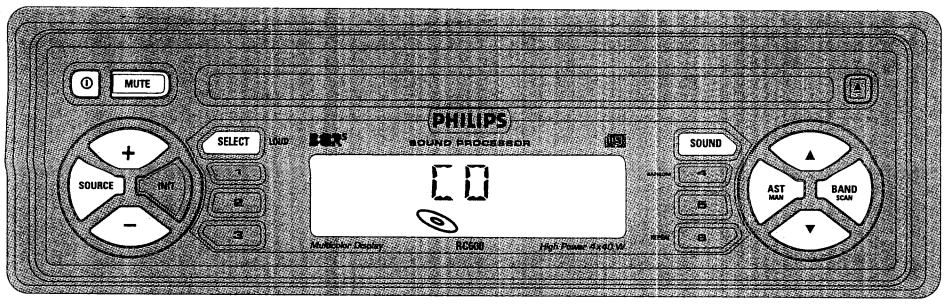
If an incorrect code is entered you have to follow the same procedure as described in 'Entering the code'.

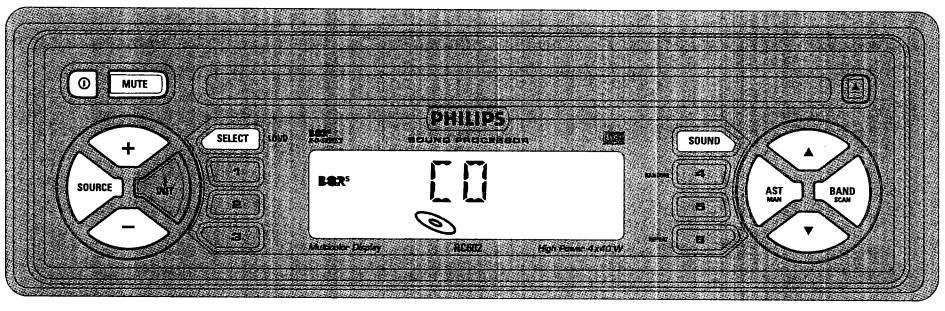
IF THE SET HAS TO BE SENT FOR REPAIR

Deactivat the Security Code (as described above), or
Write the Security Code on a label and attach it to the set. After repair, remove the label from the set.

Option (▲or▼)	Choice	Usage (AST)
Time	[OFF, 12H, 24H]	Select the desired clock format (See 'SETTING THE CLOCK).
BLEEP	[-2,-1,0,+1,-2]	Select volume level of confirmation beeps .
LOGI	[OFF, ON]	Select 'ON' if you want to be able to use the set even when the car ignition is switched off . The 'on/off logic' feature enables use of the set (for one hour) even when you have removed the car ignition key.
LED	[OFF, ON]	No effect for this set without detachble front.
LOUD	[LOW, MID, HI]	Select the level of loudness control.
CD	[-2, -1,0,+1,+2]	Volume level of CD relative to tuner.
TA	[-2,-1,0,+1,+2]	Select volume level of Traffic Announcements on FM.
SRCH	[DX, LO]	Select 'LO' if you wish to search onlly for strong stations during automatic tuning to a frequency .
AF	[ON, OFF]	Select 'ON' to activate the Alternaive Frequency function
RADIO	[EUROPE, LATAM, AMERICA, ASIA]	Select the tuner according to Europe , Latin America America or Asia standard.
AM	[OFF, ON]	Select 'OFF' to suppress AM if not in use (only applicable when RADIO is in Latin America, America or Asia standard.)

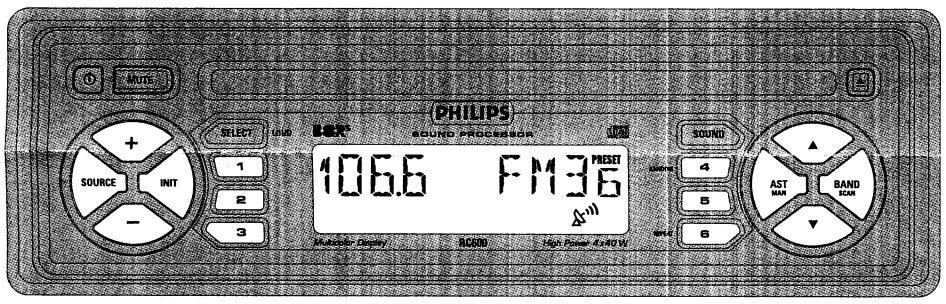
Note: References volume can be preset by the volume up or down keys during the initialisation mode.
* Some items in the list above will appear for selected model only.

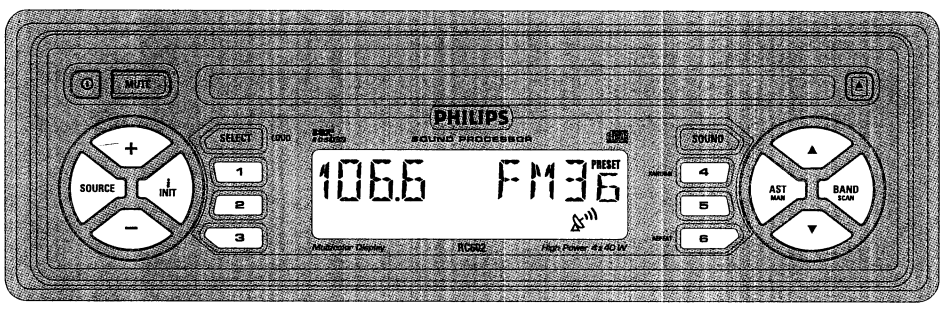




AUDIO ADJUSTMENT

- **Power:** Press POWER key to switch the set on or off.
- **Volume:** Press + key or - key to adjust the volume. Please make sure you can still hear the traffic (horns, sirens .....).
- **SOUND:** Choose one of the pre-defined sound styles with the SOUND key.
  BASS-TRE: Your own settings of bass and treble.
  FLAT: Mid-positions of bass and treble.
  JAZZ : Jazz music.
  VOCAL: Speech.
  CLASSIC: Classical music.
  ROCK: Rock music.
- **SELECT:** Choose the desired audio mode with SELECT key.
  B ASS (low notes), TREBLE (high notes), BALANCE (left-right), FADER (front-rear).
  - Press + k ey or - key to adjust the selected mode.
  Adjustment of Bass and treble settings only applicable when 'BASS-TRE' is selected as the sound style.
- **Note:** After 5 seconds the display goes back to the last mode of operation.





RADIO

- **WAVEBAND**
  Briefly press B AND key to select the desired waveband.
  - The display shows: FM1, FM2, or FM3, AM1 or AM2. (When the choice is set to 'LATAM' or 'AMERICA' or 'ASIA' under 'RADIO' option; see INITIAL SETTINGS).
- **SEARCHING TUNING**
  Use search tuning to quickly search for a station.
  Briefly press ▲or ▼k ey.
  - You will receive a station after a short time.
  To search for another station, press the key again.
- **MANUAL TUNING (If you know the frequency of the required station)**
  Press MANU AL key for at least 2 seconds (until you hear a beep), to switch from search tuning to manual tuning.
  Tune to the desired frequency with▲or▼ key (keeping the key pressed changes the fre quency quickly)
  ▲higher frequency
  ▼ lower frequency
- **Note:** The radio automatically switches back to search tuning after about 50 seconds with a beep.

LOUD: Press LOUD key at least 2 seconds (until you hear a beep) to switch loudness on or off.
To reinforce bass and treble especially when listening at a low volume level.

MUTE: Press the MUTE key to mute the sound momentarily. Press MUTE key again to restore the volume level.

SOURCE: Press the SOURCE key to select the desired source. The display shows: RADIO or CD.

SETTING THE CLOCK

Press INIT k ey for at least 2 seconds (until you hear a beep) to enter the Intialisation mode.
- Display shows 'INIT'.
  Press▲or▼to select TIME .
  Press AST key to select 12H or 24H.
  Press ▲k ey:
- Display shows: e.g. '00:00' (24 hour format) / 'AM 12:00' (12 hour format).
- Hour digit start flashing.
  Press the AST key to adjust the hour setting , same for minute.
  Press the ▲k ey to switch to minute setting, and press ▼key to return to hour setting.
  Press INIT k ey until your hear a beep to leave the initialisation mode except in INIT mode.
- 10 seconds after any k ey operations, the display will always shows time when clock mode is activiated

Useful tips

Set functions but no sound.
- Adjust the volume of the set.
- Adjust F ader settings.
  Display shows 'TOO HOT' and the sound from the speaker is reduced.
- A built-in safety circuit prevents the temperature in the set from exceeding a certain level.
- W ait until 'TOO HOT' disappears from the display before increasing the volume.

PRESET KEYS 1-6 (STORE AND PRESET)

Six stations per waveband can be stored and recalled using the preset keys (1to 6).

STORING A STATION

Briefly press B AND key to select the desired waveband.
Tune-in the desired station frequency.
Pressed the desired preset k ey (1 to 6) for at least 2 seconds (until you hear a beep).
Note: A previously-stored station is automatically erased if a new frequency and preset number.

RECALLING A STATION

Briefly press the B AND key to select the desired waveband.
- The display will show the band, frequency and preset number.

AUTO STORE (AST)

You can automatically store 6 FM stations on FM3 band or 6 Am(mw) stations on AM2 (MW2) band by using AUTOSTORE (AST) function. When you use Auto Store, the new station replace any previously stored in the FM3 band or the Am2(mw2) band.

AUTOMATICALLY STORE A STATION

Briefly press the B AND key to select the desired FM or AM band.
Briefly press AST key, you will hear a beep.
- The set mutes and display shows 'FM3 AST' or 'MW2 AST' or 'AM2 AST'.
- You will hear a beep when it has finished storing 6 stations.
- You will hear the station on preset 1.

Sometimes it may not be possible to find six stations. In this case, the remaining presets are programmed with 0000 (radio mute). If no stations are found, the previously stored stations are maintained.

FREQUENCY SCAN

The scan function gives you a quick impression of all the station which can be received on the current waveband. You hear each station in turn for about 10 seconds.
Press SCAN k ey for at least 2 seconds to swtich SCAN function on or off.

RADIO DATA SYSTEM (RDS) ON FM (for selected model only)

Many FM stations broadcast RDS information.
This car radio uses the RDS information to offer you many advantages, including:

DISPLAY OF STATION NAME
The set displays the name of the station instead of its frequency.

AUTOMATIC RETUNING
The set continuously check a list of Alternative Frequencies (AF) for the tuned radio station and automatically selects the best frequency.

USEFUL TIPS
Display shows frequency (not station name).
Set is tuned to non-RDS station.
Radio switches to another station while driving through different reception areas of different trans mitters . See INITIAL SETTINGS; select Option 'AF' and set the Choice to 'ON'.

DISPLAY OF PROGRAMME TYPE (PTY)
If an RDS station is stored on a preset, you can check the type of programme being transmitted.
Briefly press the relevant Preset to see the programme type (if transmitted).

INFORMATION FROM RELATED RADIO STATIONS
Enhanced Other Network (EON) is an RDS service where the broadcaster links some station together. If you tuned to a station where is linked to others by EON, the set is capable of receiving Traffic-Announcements (and / or News bulletins) from both the tuned station and related stations.

ALARM MESSAGES (PTY Alarm)
This set automatically receives emergency massages made by the broadcaster .
- During the messages the display shows 'ALARM' and the station-name alternately.

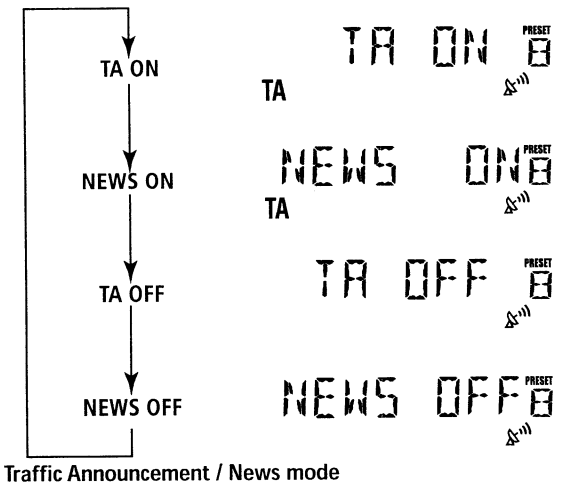
TRAFFIC ANNOUNCEMENTS
You can switch on the TA mode to give priority to Traffic Announcements (even if you play a CD or mute the set).
You will hear the Traffic Announcements when broadcast, if you switch on the TA mode .
- If the tuned station does not enable the reception of Traffic Announcements, the display shows 'NO T A'. The radio automatically searches an appropriate station .

USEFUL TIPS
Display shows 'NO TA', and set beeps at intervals .
The tuned station becomes too weak to enable the reception of Traffic Announcements Use search tuning to find another station.
If TA mode is switched on, search tuning only select stations which enable the reception of Traffic Announcements .

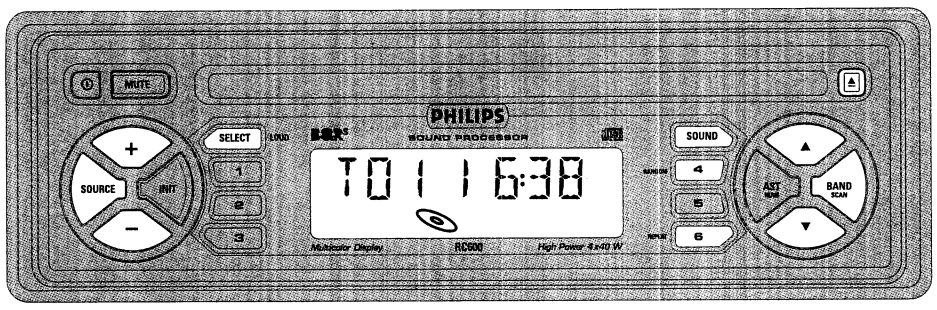
NEWS BULLETINS

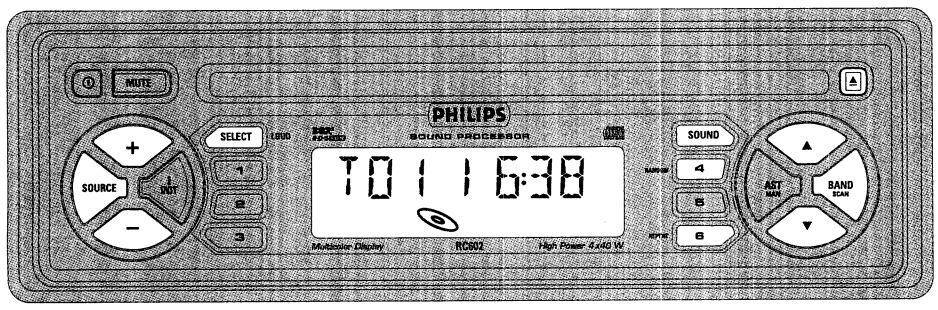
You can switch on the NEWS mode to give priority to News bulletins (even if you play a CD or mute the set). NEWS is not yet implemented in all countries.
Note: News bulletins may be interrupted by Traffic Announcements (if the TA mode is switched on)

Activate the desired TA or NEWS mode.
Select a FM band with BAND key .
Briefly press the i key to select the desired RDS mode. When you briefly press the i key, the mode and display changes cyclically as follows :



Interrupting Traffic Announcement / News mode
If you do not wish to continue listening to a particular Traffic Announcement or News mode, you can interrupt it without switching off the mode .
Briefly press the i key.
- The set will return to the previous operating mode.





RANDOM TRACK PLAYBACK
Press RANDOM key during playback to play the track on the disc in random order.
Press the RANDOM key again to rusume normal playback.

REPEAT TRACK
Press REPEAT key during playback to repeat the current track.
Press the REPEAT key again to resume normal playback.

DISC EJECT ▲
Briefly press ▲ to eject the disc from the player.
If the disc is not removed within 15 seconds, the player will reload the disc.

Useful tips
Display shows 'CD ERROR'.
- The disc is dirty or inserted upside down.
Display shows 'NO CD'.
- No disc is inserted in the set.

CARE OF DISCS
Avoid making fingerprints on the disc.
After ejecting the disc, put it back into the disc box to prevent it from damage and dust.
Never expose disc to heat or direct sunlight.

CD PLAYER

This CD player is suitable for 8cm & 12cm disc.

CD PLAYER
Slide the disc (with the label facing upwards) into the slot, or
If a disc is already inserted: Briefly press the SOURCE key to select CD as the source.
- The display shows the track number, elapsed playing time during playback.

PREVIOUS/NEXT TRACK
Briefly press the ▲ or ▼ buttons to select the desired track.
Playback resumes starting from the chosen track.
- The display shows the selected track number and elapsed playing time.

FAST BACKWARD/FORWARD
Press and hold ▲ or ▼ buttons to move quickly to another part of the disc during playback. Playback resumes when ▲ or ▼ is released.

TRACK SCAN
Press SCAN key during playback to hear the first 10 seconds of each track.
Press the SCAN key again to resume normal playback.

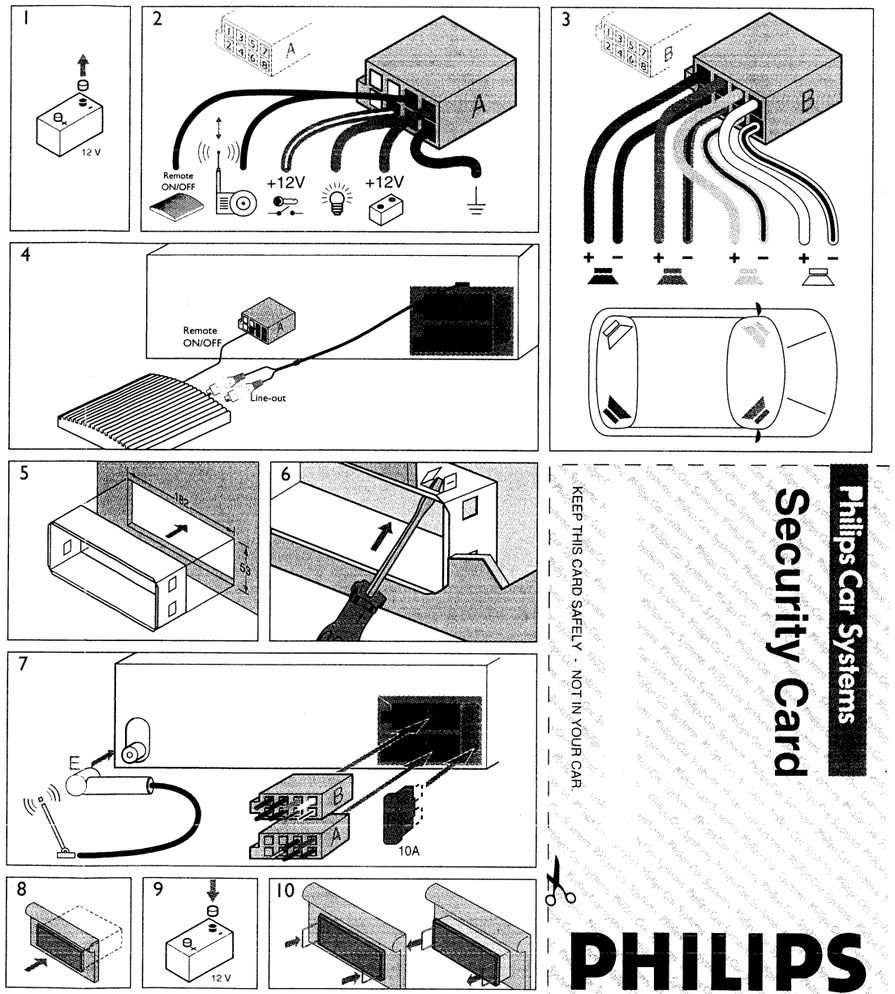
NOTES

CHECK BEFORE REQUESTING SERVICE

There may be times when you suspect that your car radio is not functioning as you expect it to. Before calling for service please read the operating/installing instruction and check the following list, you may find that an apparent malfunction can easily be rectified.

SYMPTOMS	POSSIBLE CA	USE / REMEDY
General		
Set does not function, no display		check fuse and connections.
Set functions but with no or poor sound		Adjust volume of set to demute set, Check fader and balance settings, Check the aerial and its connection.
Set front feels warm	Some heat is alw	ays generated by the set.
The sound from the speaker is reduced	A built-in safety circuit prevents the tempera	ture in the set from exceeding a certain level. Wait until 'TOO HOT' does not appear on the display when increasing the volume .
RADIO		
Poor radio reception		Check that the aerial is fully extended and properly connected, Check that the negative terminal is connected to earth (car -chassis).
CD		
Display shows 'NO CD' or 'CD ERROR'		No CD inserted, or CD inserted upside-down or damaged or dirty or of the wrong type .
Distorted sound during playback		CD damaged or dirty.

If you still have to send your set for service, always send the complete set.
Do not try to open the set to service it yourself



KEEP THIS CARD SAFELY - NOT IN YOUR CAR.

Philips Car Systems

Security Card

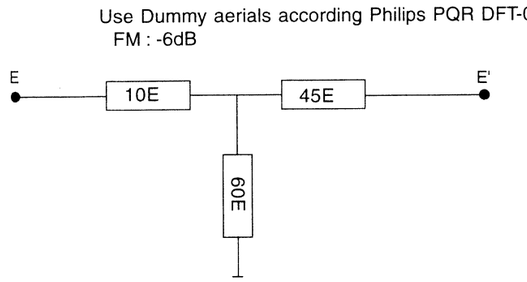
PHILIPS

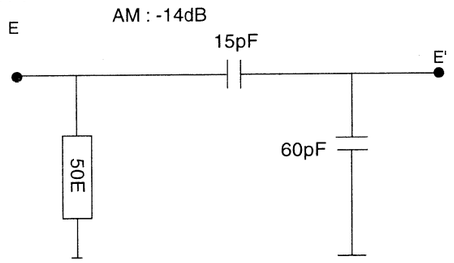
SERVICE HINTS

FM and AM search levels are stored in the EEprom. When you change the tuner module or the Eeprom, in order not to affect the performance of the set, you will need to reprogramme the FM and AM search levels using this service routine.

Make sure that you connect the following 75E FM and AM dummy antenna matching unit before reprogramming the search levels.

Use Dummy aerials according Philips PQR DFT-009-0561 :





Service Test Mode :

Tuner reception check (Test mode)

Press Preset 2 and Preset 4 together to activate tuner test mode.

Display shows : " XXXX QRMF "

XXXX - 4 figures of tuned frequency

Q- Selected frequency quality

R- Best AF quality

M- Multipath
range 0 ... F hexadecimal
(0 = NO Multipath)

F- Field strength
range 0 ..... F hexadecimal
(F = Good signal strength)

Keyboard Test

This test is called by switching the set ON while keeping pressed the preset 3 key. A different number will apear each time you press a new key (e.g. Preset 3 corresponds to T03). This test can be exited at any moment by switching off the set.

LCD Display Test

Press Preset 1 and Preset 5 together to activate LCD display test. All segments of the LCD are lighted up.

Software release status

CHECKSUM FOR SOFTWARE RELEASE 1.0 :

Press Preset 1 and Preset 6 together to see the software release status

Display shows : "XXXX H"

XXXX = Checksum

H = Hexa. decimal

ADDITIONAL FUNCTION CHECK:

Item	Input	Output
External illumination +	Set off Inject +12V at pin A6	Power pilot light turns ON.
Auto Antenna	Connect a resistor of 25 from A5 to GND. Switch on set.	Voltage drop between pin A7 & A5 < 1V.

POWER IGNITION CHECK :

Steps	Permanent (A7)	Ignition (A4)	Action	Observation
1	ON	ON	Turn set ON with power key.	Set is turn on.
2	ON	OFF	Switch OFF ignition	Set switches off.
3	ON	ON	Switch ON ignition.	Set will be on.

TUNER CHECK:

This tuner module is a Non repairable module, complete spare parts as an module is readily available. For general check, please refer to the manual " General Check & Alignment procedures for Car Systems" 4822 725 25456. Use a matching circuit (artifical aerials) with Zi = 75ohm.

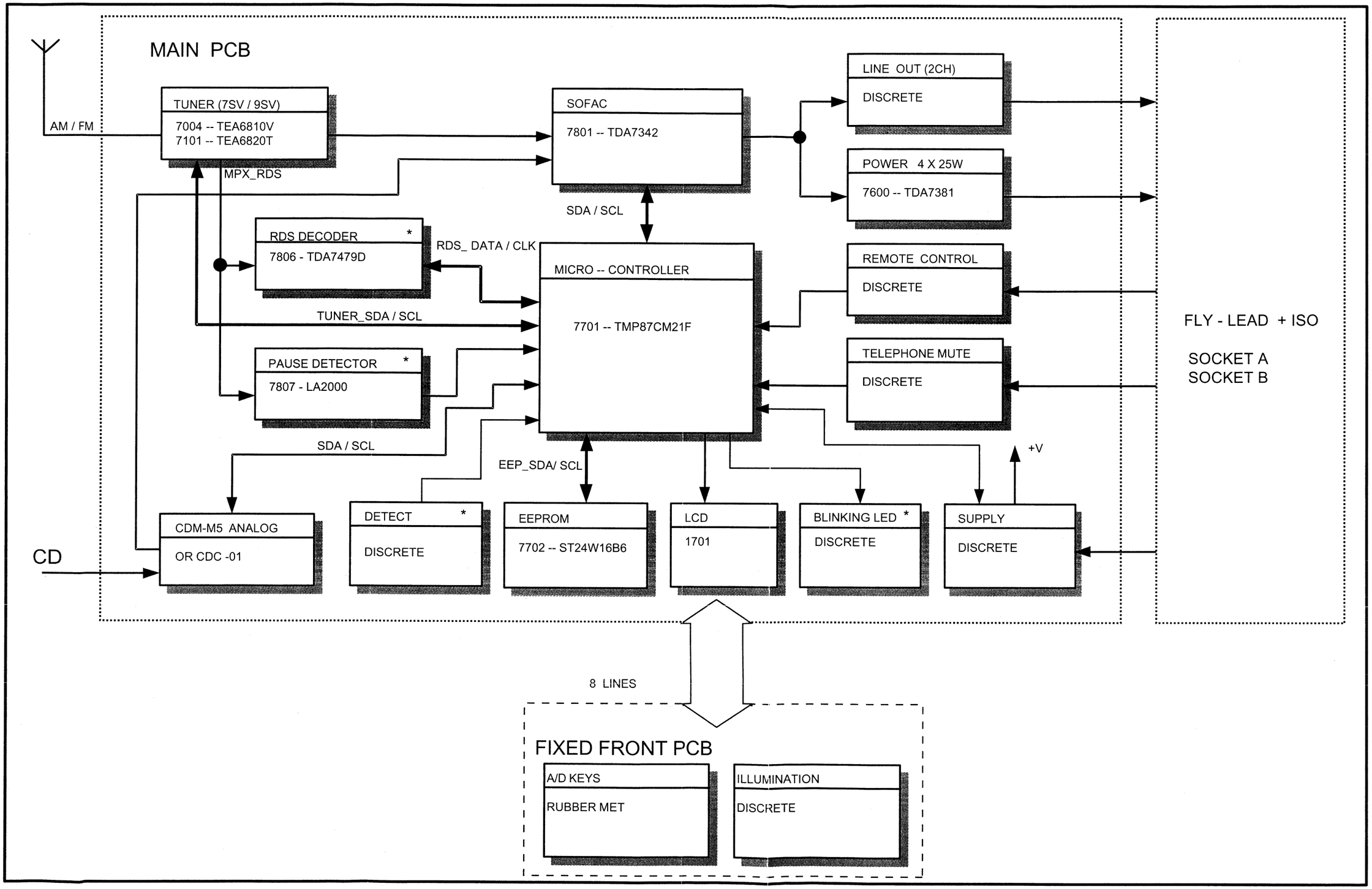
CHECK	TUNE IN	OUTPUT
3 dB	FM 93MHz, 1mV, Dev=22.5kHz, f mod. = 1kHz FM 93MHz, 7uV, Dev=22.5kHz, f mod. = 1kHz	Conn. Block B3, B5 = 0dB (reference level) Conn. Block B3, B5 = -3dB
SDS 10dB talk	FM 93MHz, 1mV, Dev=22.5kHz, f mod. = 1kHz FM 93MHz, 140uV, Dev=22.5kHz, f mod. = 1kHz (L)	Conn. Block B3, B5 = 0dB (reference level) Cross- Conn. Block B3 = -10dB
Stereo Channel ration	FM 93MHz, 1mV, Dev=22.5kHz, f mod. = 1kHz FM 93MHz, 1mV, Dev=22.5kHz, f mod. = 1kHz (L)	Conn. Block B3, B5 = 0dB (reference level) sepa- Conn. Block B3 -21dB
26dB SNR	FM 93MHz, 4.5uV, Dev=22.5kHz, f mod. = 1kHz FM 93MHz, 4.5uV, Dev=22.5kHz, unmodulated	Conn. Block B3, B5 = 0dB (reference level) Conn. Block B3, B5 -26dB
FM Demodulated level	FM 93MHz, 1mV, Dev=22.5kHz, f mod. = 1kHz	Pin 10 of Tuner module 7SV = 200mV (AC) ± 20mV Pin 15 of Tuner module 7SV = 280mV (AC) ± 3dB
FM Search Sensitivity	FM 93MHz, unmodulated	DX : E < 20uV LO : E < 400uV
AM Demodulated level	AM 1053kHz, 1mV, m=30%, f mod. = 1kHz	AM_OUT of Tuner module 7SCV = 280mV (AC) ± 3dB
26dB SNR	MW 1053kHz, 30uV, m=30%, f mod. = 1kHz MW 1053kHz, 30uV, unmodulated	Conn. Block B3, B5 = 0dB (reference level) Conn. Block B3, B5 -26dB
AM Search Sensitivity	AM 1053kHz, unmodulated	E = 14uV

CLOCK ALIGNMENT :

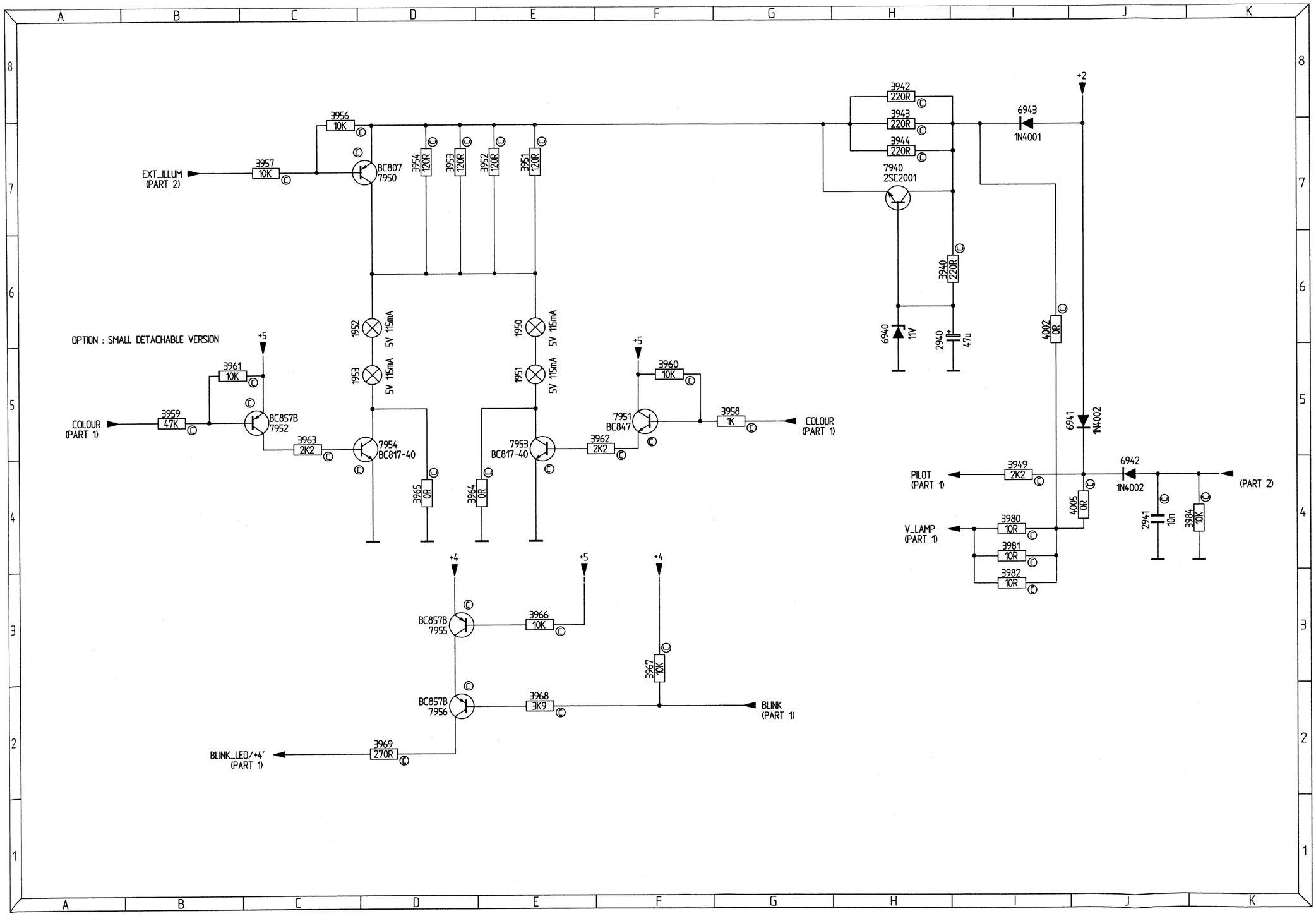
Set T722 (EEP_SCL) TO GND and turn the set on to do clock alignment.

Signal	Test point	Frequency	Aligned with
CLK	(T108) Pin 20 of main uP	1024Hz	2705
GND	(T106) Power supply Gnd		

PART A: ELECTRICAL ARCHITECTURE

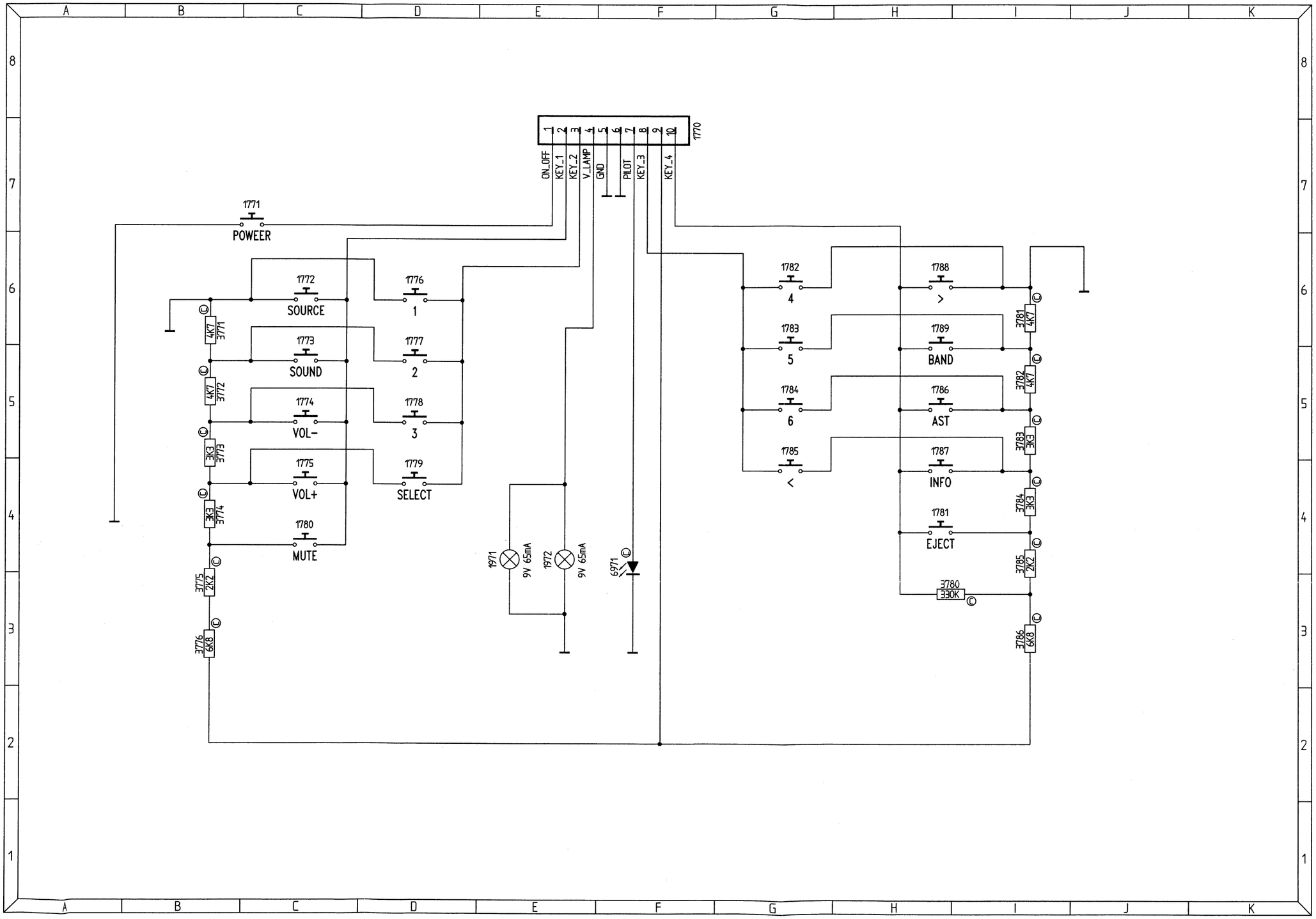


PART6: LCD ILLUMNATION (MAIN PCB)

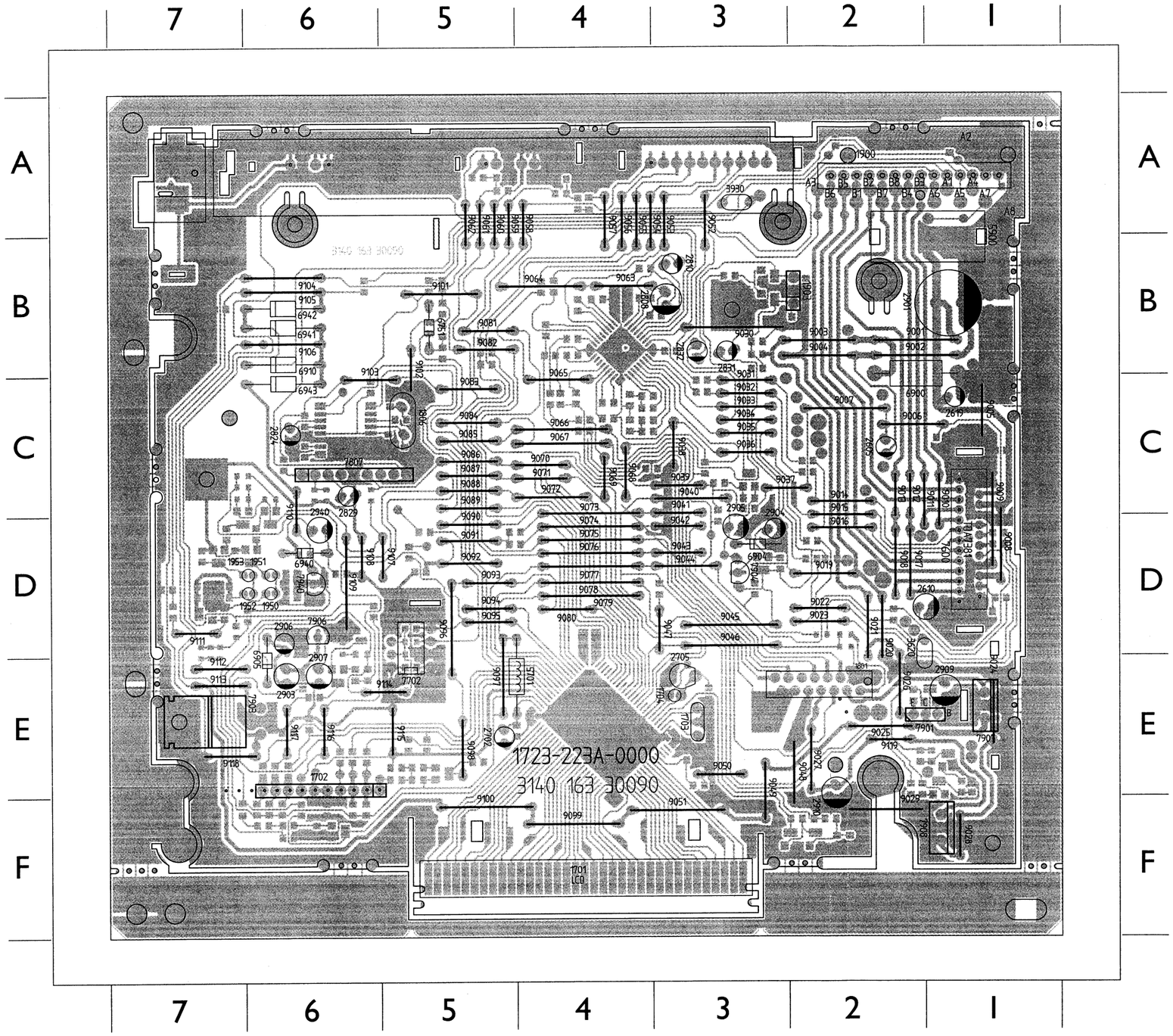


1950 [E,5]
1951 [E,5]
1952 [D,5]
1953 [D,5]
2940 [H,6]
2941 [J,4]
3940 [H,6]
3942 [H,8]
3943 [H,7]
3944 [H,7]
3949 [I,4]
3951 [E,7]
3952 [E,7]
3953 [D,7]
3954 [D,7]
3956 [C,7]
3957 [C,7]
3958 [F,5]
3959 [B,5]
3960 [F,5]
3961 [B,5]
3962 [E,5]
3963 [C,5]
3964 [E,4]
3965 [D,4]
3966 [E,3]
3967 [F,2]
3968 [E,2]
3969 [C,2]
3980 [I,4]
3981 [I,4]
3982 [I,3]
3984 [K,4]
4002 [I,5]
4005 [J,4]
6940 [H,6]
6941 [J,5]
6942 [J,4]
6943 [I,7]
7940 [H,7]
7950 [C,7]
7951 [F,5]
7952 [B,5]
7953 [E,5]
7954 [C,5]
7955 [E,3]
7956 [E,2]

PART 7: FIXED FRONT PCB

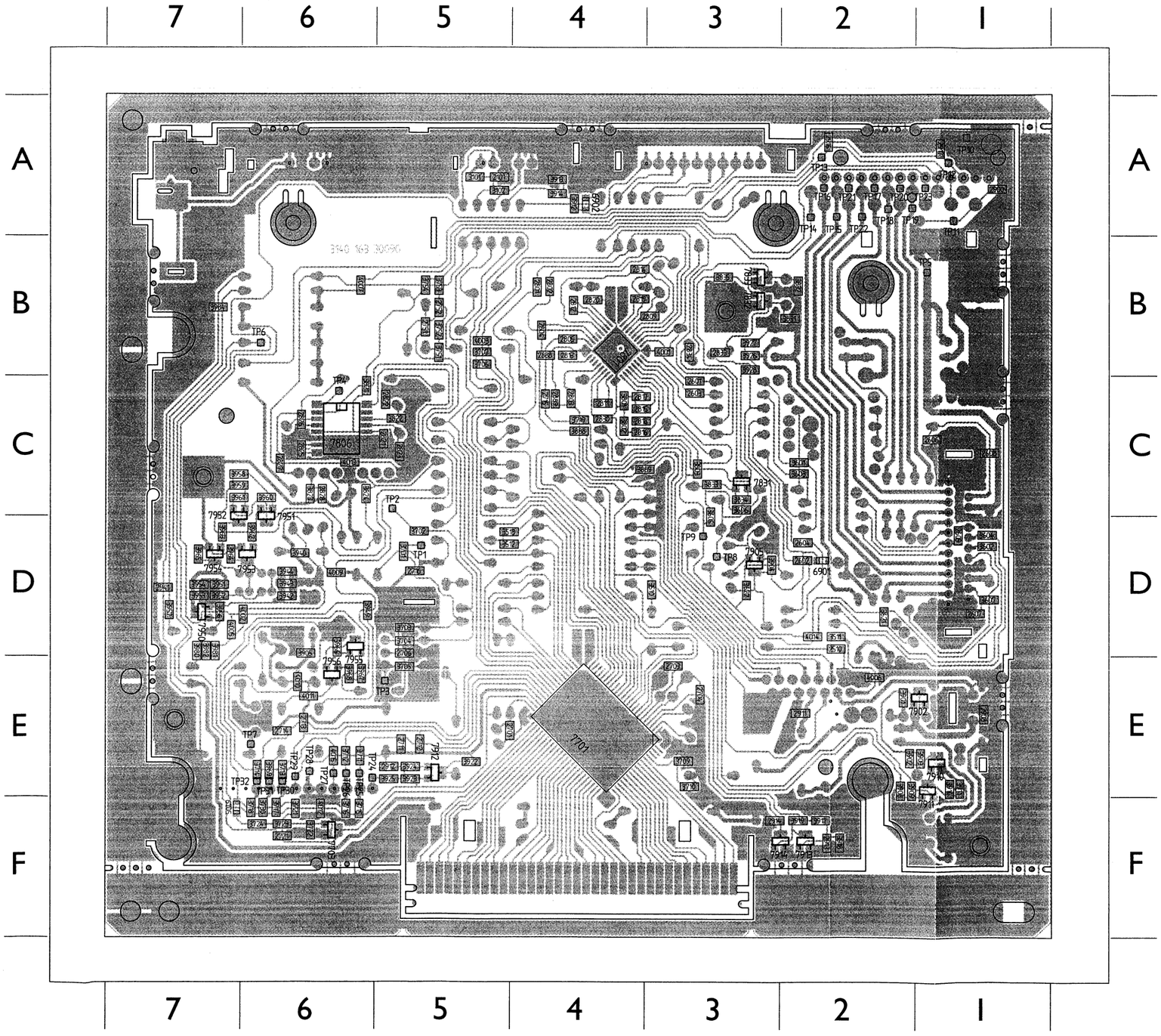


Component Layout



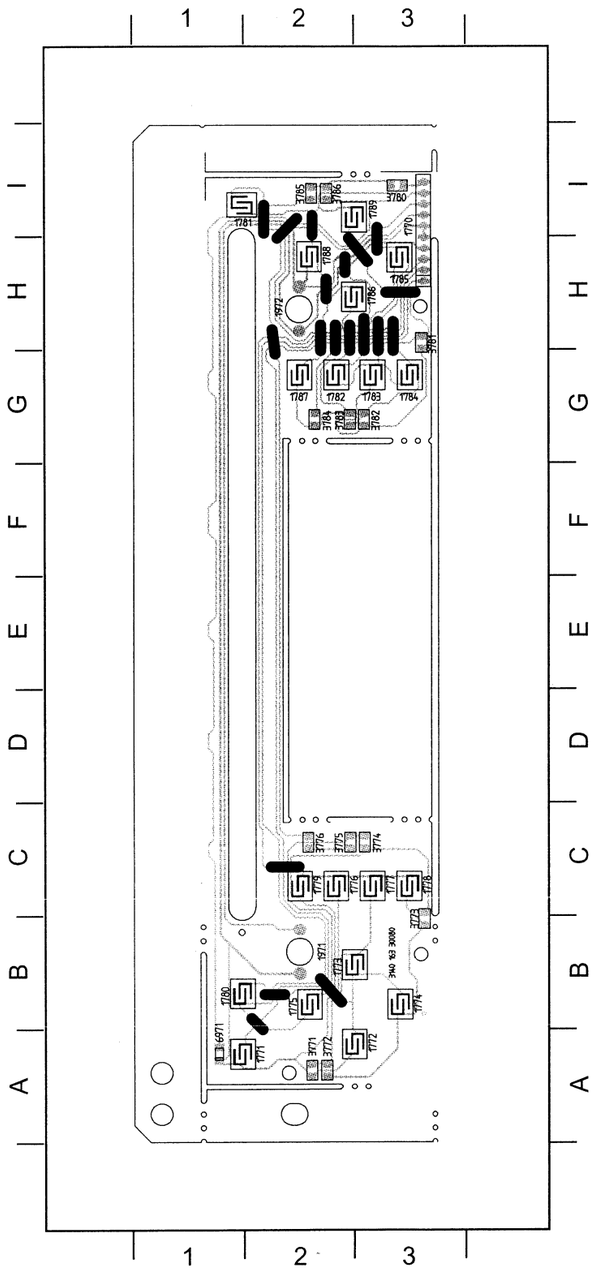
1701 F4
1702 E6
1703 E3
1704 E3
1801 E2
1806 C5
1903 B2
1950 D6
1951 D6
1952 D6
1953 D6
2065 C2
2610 D2
2619 C1
2702 E5
2705 E3
2810 B3
2824 C6
2829 C6
2831 B3
2832 B3
2901 B1
2903 E6
2904 D3
2905 D3
2906 D6
2907 E6
2909 E1
2910 E2
2940 D6
3620 D2
3930 A3
5701 E5
6751 B5
6900 C2
6900 C2
6904 D3
6905 E6
6910 B6
6940 D6
6941 B6
6942 B6
6943 C6
6700 D1
7702 D5
7807 C6
7901 E2
7903 E7
7904 D3
7906 D6
7907 E1
7908 F1
7940 D6
9001 B2
9002 B2
9003 B2
9004 B2
9005 C1
9006 C2
9007 C2
9008 D1
9009 C1
9009 D1
9010 C1
9011 C2
9012 C2
9013 C2
9014 C2
9015 C2
9015 D2
9016 D2
9017 D2
9018 D2
9019 D2
9020 D2
9021 D2
9022 D2
9023 D2
9024 D1
9025 E2
9026 E2
9027 E2
9028 F1
9029 F2
9030 B3
9031 C3
9032 C3
9033 C3
9034 C3
9034 C3
9035 C3
9035 C3
9036 C3
9037 C3
9038 C3
9039 C3
9040 C3
9041 C3
9042 D3
9043 D3
9044 D3
9045 D3
9046 D3
9047 D3
9048 E2
9049 E3
9050 E3
9051 F3
9052 A3
9053 A3
9054 A4
9055 A4
9056 A4
9057 A4
9058 A4
9059 A5
9060 A5
9061 A5
9062 A5
9063 B4
9064 B4
9065 C4
9066 C4
9067 C4
9068 C4
9069 C4
9070 C4
9071 C4
9072 C4
9073 C4
9073 D4
9074 D4
9075 D4
9076 D4
9077 D4
9078 D4
9079 D4
9080 D4
9081 B5
9082 B5
9083 C5
9084 C5
9085 C5
9086 C5
9087 C5
9088 C5
9089 C5
9090 D5
9091 D5
9092 D5
9093 D5
9094 D5
9095 D5
9096 D5
9097 E5
9098 E5
9099 F4
9100 F5
9101 B5
9102 B5
9103 C6
9104 B6
9105 B6
9106 B6
9107 D5
9108 D6
9109 D6
9110 C6
9111 D7
9112 E7
9113 E7
9114 E5
9115 E5
9116 E6
9117 E6
9118 E7
9119 E2

Chip Layout



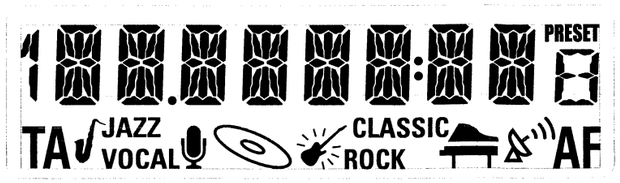
2101	A5	3602	D1	3925	E5
2510	D2	3603	C2	3926	B3
2601	C3	3604	D1	3927	B3
2602	D2	3605	C3	3928	B3
2603	C3	3606	C3	3940	D6
2604	D2	3607	D1	3942	D6
2606	C1	3621	D2	3943	D6
2607	D1	3622	D3	3944	D4
2608	C1	3701	D5	3949	D6
2609	D1	3702	D5	3951	D7
2701	E5	3703	D5	3952	D7
2703	E3	3704	D5	3953	D7
2704	E3	3705	E5	3954	D7
2706	D5	3706	B5	3956	D7
2711	E5	3707	B5	3957	D7
2712	E5	3709	E3	3958	C7
2713	E6	3710	E3	3959	C7
2714	E6	3711	E6	3960	C6
2715	C4	3712	E6	3961	C7
2716	D5	3714	E6	3962	D6
2721	F6	3715	F6	3963	D7
2751	B5	3716	F6	3964	D7
2752	B5	3717	F6	3965	D7
2801	B4	3718	F6	3966	D6
2802	B4	3719	C4	3967	E6
2803	C4	3721	F6	3968	E6
2804	B4	3722	F6	3969	E6
2805	B4	3723	F6	3980	D7
2809	B3	3724	F6	3981	D7
2811	C4	3730	F6	3982	D7
2812	B4	3751	B5	3984	B7
2813	B4	3752	B5	4001	B3
2814	B4	3753	B5	4002	D6
2815	C4	3754	B5	4003	B5
2816	C4	3801	C4	4005	D7
2817	C4	3802	C4	4006	E2
2818	C4	3803	C3	4007	B6
2819	B4	3821	C6	4009	D6
2820	B4	3822	C5	4010	E6
2822	C5	3823	C6	4011	E6
2823	C5	3824	C6	4012	F6
2825	C6	3831	B2	4013	C6
2826	C6	3832	B2	4014	D2
2828	C6	3833	C3	4015	E6
2830	C4	3834	C3	6705	F7
2833	B3	3835	B3	6901	D2
2834	B3	3888	C4	6902	A4
2877	C6	3889	C4	7701	E4
2888	B4	3901	E2	7703	F6
2889	C4	3902	E2	7801	B4
2900	A1	3903	E1	7806	C6
2908	E1	3904	D3	7831	C3
2911	E2	3905	D6	7832	B3
2912	E5	3908	E2	7833	B3
2913	F2	3909	E2	7902	E1
2914	F3	3910	E1	7905	D3
2916	A2	3911	E1	7910	E1
2917	A1	3912	A4	7911	E1
2941	D7	3913	A4	7912	E5
3101	A5	3914	A4	7913	F2
3102	A5	3917	F2	7914	F3
3510	D3	3918	F2	7950	D7
3511	D2	3919	F2	7951	C6
3512	D5	3922	E5	7952	C7
3513	D5	3923	E5	7955	D6
3601	C2	3924	E5	7956	E6

KEYBOARD PCB



1770 3I
1771 2A
1772 3A
1773 2B
1774 3B
1775 2B
1776 2C
1777 3C
1778 3C
1779 2C
1780 1B
1781 1I
1782 2G
1783 3G
1784 3G
1785 3H
1786 3H
1787 2G
1788 2H
1792 2H
1971 2B
3771 2A
3772 2A
3773 3C
3774 3C
3775 2C
3776 2C
3780 3I
3781 3H
3782 3G
3783 2G
3784 2G
3785 2I
3786 2I
6971 1A

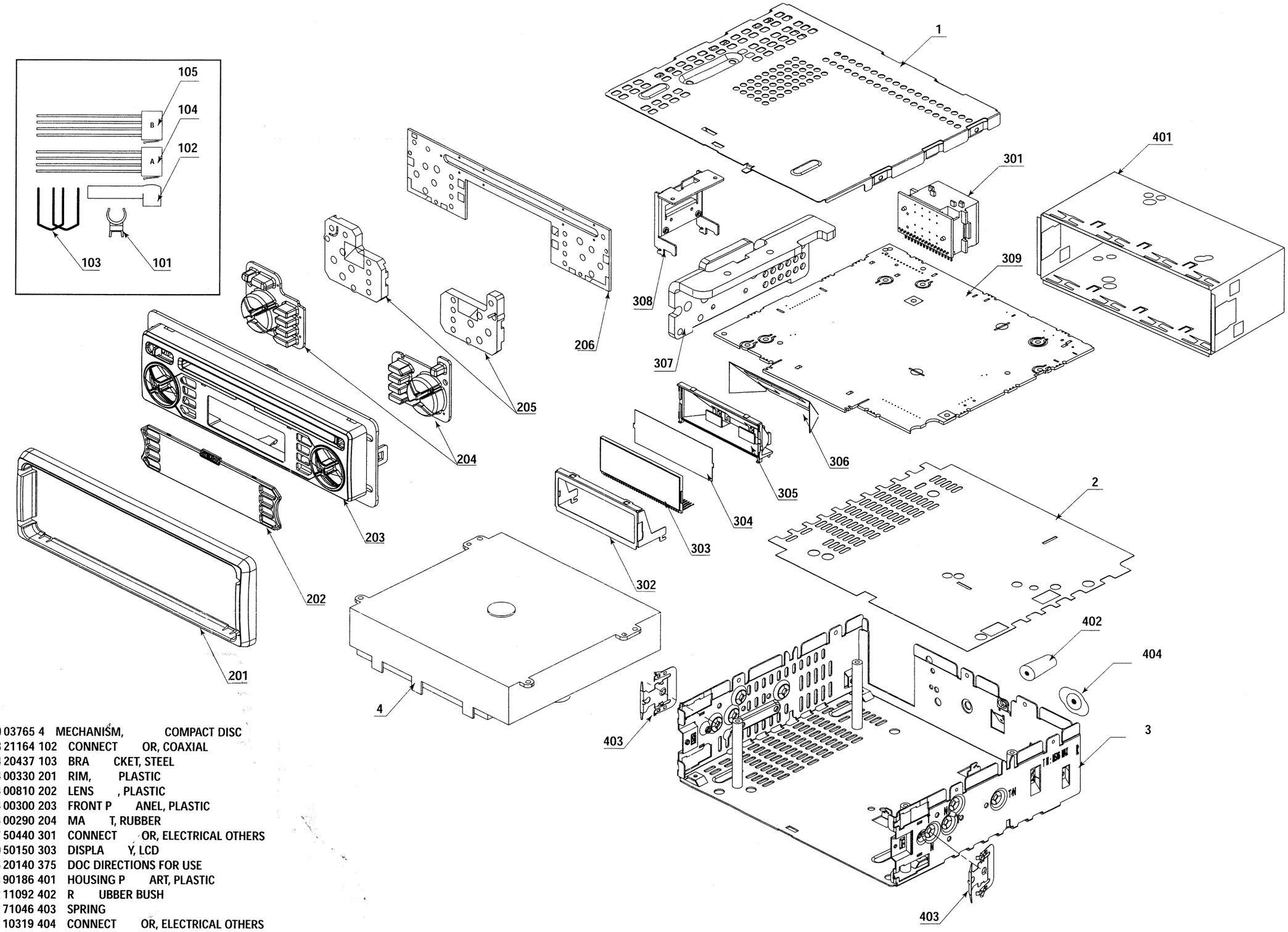
FVC & PIN-OUT TABLE



LCD PINOUT LIST (RC600)

PIN	COM1	COM2	COM3	COM4
1	COM1	--	--	--
2	--	COM2	--	--
3	--	--	COM3	--
4	--	--	--	COM4
5	2f	2g	2e	1b,1c,1k
6	2i	2j	2l	
7	2a	2k	2m	2d
8	2b	2h	2c	TA
9	3f	3g	3e	11e
10	3i	3j	3l	11d
11	3a	3k	3m	3d
12	3b	3h	3c	11c
13	4f	4g	4e	P1
14	4i	4j	4l	
15	4a	4k	4m	4d
16	4b	4h	4c	11g
17	5f	5g	5e	JAZZ,X2
18	5i	5j	5l	VOCAL,X3
19	5a	5k	5m	5d
20	5b	5h	5c	11b
21	6f	6g	6e	11a
22	6i	6j	6l	11f
23	6a	6k	6m	6d
24	6b	6h	6c	X4
25	7f	7g	7e	AF
26	7a	7k	7m	7d
27	7b	7h	7c	ROCK,X7
28	8f	8g	8e	COL
29	8i	8j	8l	CLASSIC,X6
30	8a	8k	8m	8d
31	8b	8h	8c	9c
32	9f	9g	9e	9h
33	9i	9j	9l	9b
34	9a	9k	9m	9d
35	7i	7j	7l	PRESET,X1

EXPLODED VIEW



9965 000 03765 4	MECHANISM,		COMPACT DISC
4822 263 21164 102	CONNECT	OR, COAXIAL	
4822 404 20437 103	BRA	CKET, STEEL	
3140 164 00330 201	RIM,	PLASTIC	
3140 164 00810 202	LENS	, PLASTIC	
3140 164 00300 203	FRONT P	ANEL, PLASTIC	
3140 164 00290 204	MA	T, RUBBER	
3140 167 50440 301	CONNECT	OR, ELECTRICAL OTHERS	
3140 160 50150 303	DISPLA	Y, LCD	
3140 165 20140 375	DOC DIRECTIONS FOR USE		
4822 423 90186 401	HOUSING P	ART, PLASTIC	
4822 532 11092 402	R	UBBER BUSH	
4822 492 71046 403	SPRING		
4822 265 10319 404	CONNECT	OR, ELECTRICAL OTHERS	

PARTLIST 79RC600/00

1000 482207121003 FU FLA T 19X19MM 10A

FRONT PCB :

1971 314016870120 DL 9V 85MA 3X5.3 W/COVER GN
1972 314016870120 DL 9V 85MA 3X5.3 W/COVER GN
6971 314016050110 LED RED KP-2012EC SMD

MAIN PCB : CAPACITOR

2605 482212411947 ELCAP KS 16V S 10U PM20
2610 482212422646 ELCAP KS 16V S 47U PM20
2619 482212411947 ELCAP KS 16V S 10U PM20
2808 482212480453 ELCAP KS 10V S 100U PM20
2810 482212411947 ELCAP KS 16V S 10U PM20
2903 482212423279 ELCAP KS 16V S 22U PM20
2904 482212411947 ELCAP KS 16V S 10U PM20
2905 482212423279 ELCAP KS 16V S 22U PM20
2906 482212411947 ELCAP KS 16V S 10U PM20
2907 482212423279 ELCAP KS 16V S 22U PM20
2909 482212480453 ELCAP KS 10V S 100U PM20
2910 482212480453 ELCAP KS 10V S 100U PM20

MAIN PCB : MISCELLANEOUS

1100 482221010839 9SV TUNER FOR AUSTRALIA
1702 482226541508 CON BM H 10P M 2.50
1703 482224272066 RES CER 8MHZ CST8.00
1704 482224270938 RES XTL 32KHZ768 12P5 DT
1903 314016870110 RCA LINE OUT W/ STOPPER
1950 313916870650 LAMP T-3 C-2R 5V 115MA (GREEN)
1951 313916870650 LAMP T-3 C-2R 5V 115MA (GREEN)
3620 482211640254 PTC DC PTH9 16V S 330R
3930 482211640267 PTC DC 20V S 3R3 PM25 R
5701 482215711768 IND FXD LAL03 A 1000U PM10
5900 482215711787 COIL ASSY 97UH 10A

MAIN PCB : DIODE

6900 482213081624 DIO REG 1.5KE27
6901 482213011397 DIO SIG SM B AS316
6902 482213011397 DIO SIG SM B AS316
6904 482213010809 ZD 1/2W 6.2V ROHM AT
6905 482213034173 DIO REG BZX79-C5V6
6910 532213030684 DIO REC 1N4002GPE
6940 482213034197 DZ 1/2W 11.1-11.6V AT
6941 532213030684 DIO REC 1N4002GPE
6942 532213030684 DIO REC 1N4002GPE
6943 532213030684 DIO REC 1N4002GPE

MAIN PCB : TRANSISTOR / IC

7600 482220916782 IC TDA7384A (ST00) L
7701 314016050130 IC TMP87CM21F RC600
7801 482220912723 IC SM TDA7342
7831 482213060373 TRA SIG SM BC857B
7832 482213063747 TRANS CHIP DTC314TK
7833 482213063747 TRANS CHIP DTC314TK
7901 482213040995 TRA POW BD438
7902 482213060373 TRA SIG SM BC857B
7903 482220916784 IC L7885CV (ST00) L
7904 482213040959 TRA SIG BC547B (PHSE)
7905 532213060159 TRA SIG SM BC847B
7906 482213041651 TR 2SC2001 L,K
7907 314016050080 IC L7808ABV ST
7908 482220990567 IC L7805ABV (ST00) L
7910 532213060159 TRA SIG SM BC847B
7911 482213060373 TRA SIG SM BC857B
7912 482213060373 TRA SIG SM BC857B
7913 532213060159 TRA SIG SM BC847B
7914 532213060159 TRA SIG SM BC847B
7940 482213041651 TR 2SC2001 L,K
7951 532213060159 TRA SIG SM BC847B

PARTLIST 79RC600/10

1000 482207121003 FU FLA T 19X19MM 10A

FRONT PCB :

1971 314016870120 DL 9V 85MA 3X5.3 W/COVER GN
1972 314016870120 DL 9V 85MA 3X5.3 W/COVER GN
6971 314016050110 LED RED KP-2012EC SMD

MAIN PCB : CAPACITOR

2605 482212411947 ELCAP KS 16V S 10U PM20
2610 482212422646 ELCAP KS 16V S 47U PM20
2619 482212411947 ELCAP KS 16V S 10U PM20
2808 482212480453 ELCAP KS 10V S 100U PM20
2810 482212411947 ELCAP KS 16V S 10U PM20
2903 482212423279 ELCAP KS 16V S 22U PM20
2904 482212411947 ELCAP KS 16V S 10U PM20
2905 482212423279 ELCAP KS 16V S 22U PM20
2906 482212411947 ELCAP KS 16V S 10U PM20
2907 482212423279 ELCAP KS 16V S 22U PM20
2909 482212480453 ELCAP KS 10V S 100U PM20
2910 482212480453 ELCAP KS 10V S 100U PM20

MAIN PCB : MISCELLANEOUS

1100 482221010839 9SV TUNER FOR AUSTRALIA
1702 482226541508 CON BM H 10P M 2.50
1703 482224272066 RES CER 8MHZ CST8.00
1704 482224270938 RES XTL 32KHZ768 12P5 DT
1903 314016870110 RCA LINE OUT W/ STOPPER
1950 313916870650 LAMP T-3 C-2R 5V 115MA (GREEN)
1951 313916870650 LAMP T-3 C-2R 5V 115MA (GREEN)
5701 482215711768 IND FXD LAL03 A 1000U PM10
5900 482215711787 COIL ASSY 97UH 10A
3620 482211640254 PTC DC PTH9 16V S 330R
3930 482211640267 PTC DC 20V S 3R3 PM25 R

MAIN PCB : DIODE

6900 482213081624 DIO REG 1.5KE27
6901 482213011397 DIO SIG SM B AS316
6902 482213011397 DIO SIG SM B AS316
6904 482213010809 ZD 1/2W 6.2V ROHM AT
6905 482213034173 DIO REG BZX79-C5V6
6910 532213030684 DIO REC 1N4002GPE
6940 482213034197 DZ 1/2W 11.1-11.6V AT
6941 532213030684 DIO REC 1N4002GPE
6942 532213030684 DIO REC 1N4002GPE
6943 532213030684 DIO REC 1N4002GPE

MAIN PCB : TRANSISTOR / IC

7600 482220916782 IC TDA7384A (ST00) L
7701 314016050130 IC TMP87CM21F RC600
7801 482220912723 IC SM TDA7342
7831 482213060373 TRA SIG SM BC857B
7832 482213063747 TRANS CHIP DTC314TK
7833 482213063747 TRANS CHIP DTC314TK
7901 482213040995 TRA POW BD438
7902 482213060373 TRA SIG SM BC857B
7903 482220916784 IC L7885CV (ST00) L
7904 482213040959 TRA SIG BC547B (PHSE)
7905 532213060159 TRA SIG SM BC847B
7906 482213041651 TR 2SC2001 L,K
7907 314016050080 IC L7808ABV ST
7908 482220990567 IC L7805ABV (ST00) L
7910 532213060159 TRA SIG SM BC847B
7911 482213060373 TRA SIG SM BC857B
7912 482213060373 TRA SIG SM BC857B
7913 532213060159 TRA SIG SM BC847B
7914 532213060159 TRA SIG SM BC847B
7940 482213041651 TR 2SC2001 L,K
7951 532213060159 TRA SIG SM BC847B

PARTLIST 79RC600/10

1000 482207121003 FUSE

FRONT PCB :

1971 314016870120 LAMP , FILAMENT <100V
1972 314016870120 LAMP , FILAMENT <100V
6971 314016050110 LED

MAIN PCB : CAPACITOR

2605 482212411947 CAP ACITOR, ELECTROLYTIC ALU
2610 482212422646 CAP ACITOR, ELECTROLYTIC ALU
2619 482212411947 CAP ACITOR, ELECTROLYTIC ALU
2705 482212550667 CAP ACITOR, VARIABLE
2808 482212480453 CAP ACITOR, ELECTROLYTIC ALU
2810 482212411947 CAP ACITOR, ELECTROLYTIC ALU
2824 482212423504 CAP ACITOR, ELECTROLYTIC ALU
2829 482212423504 CAP ACITOR, ELECTROLYTIC ALU
2903 482212423279 CAP ACITOR, ELECTROLYTIC ALU
2904 482212411947 CAP ACITOR, ELECTROLYTIC ALU
2905 482212423279 CAP ACITOR, ELECTROLYTIC ALU
2906 482212411947 CAP ACITOR, ELECTROLYTIC ALU
2907 482212423279 CAP ACITOR, ELECTROLYTIC ALU
2909 482212480453 CAP ACITOR, ELECTROLYTIC ALU
2910 482212480453 CAP ACITOR, ELECTROLYTIC ALU
2940 482212422646 CAP ACITOR, ELECTROLYTIC ALU

MAIN PCB : MISCELLANEOUS

1100 482221010838 TUNER
1806 482224272195 CR YSTAL
1903 314016870110 CONNECT OR, ELECTRICAL OTHERS
1950 313916870650 LAMP , FILAMENT <100V
1951 313916870650 LAMP , FILAMENT <100V
6904 482213010809 LIQUID ATED ARTICLE
3620 482211640254 RESIST OR, FIXED, OTHERS <20W
3930 482211640267 RESIST OR, FIXED, OTHERS <20W
5701 482215711768 COIL
5900 482215711787 COIL

MAIN PCB : DIODE

6900 482213081624 DIODE
6901 482213011397 DIODE
6902 482213011397 DIODE
6905 482213034173 DIODE, REFERENCE
6910 532213030684 DIODE
6940 482213034197 DIODE, REFERENCE
6941 532213030684 DIODE
6942 532213030684 DIODE
6943 532213030684 DIODE

MAIN PCB : TRANSISTOR / IC

7600 482220916782 IC ANA OTHERS
7701 314016050130 IC DIG MOS U COMP 8B
7801 482220912723 IC DIG MOS INTERF ACE
7806 482220931981 IC ANA OTHERS
7807 482220983159 IC ANA OTHERS
7831 482213060373 TRANSIST OR, <1W
7832 482213063747 TRANSIST OR, <1W
7833 482213063747 TRANSIST OR, <1W
7901 482213040995 TRANSIST OR, >=1W
7902 482213060373 TRANSIST OR, <1W

NOTE: Service code for standard components are not listed here, please refer to Components catalogue from Philips Consumer Service.